

Applicant: Warren and Swanson
Application No.: 09/389,537
Filed: September 2, 1999
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In the Claims

Please enter the following rewritten claims 17 and 18 and new claims 19-27:

Sub C1
C
17. (Amended) An isolated enzyme comprising a member selected from the group consisting of an enzyme comprising an amino acid sequence which is at least 70% identical to the amino acid sequence set forth in SEQ ID NOs: 25-32 when aligned using the BLASTN program of the National Center for Biotechnology Information, wherein the enzyme has activity as a transaminase or aminotransferase.
any one of

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sub C1
18. (Amended) A method for transferring an amino group from an amino acid to an α -keto acid comprising:
contacting an amino acid in the presence of an α -keto acid with an isolated enzyme selected from the group consisting of an enzyme which is at least 70% identical to the amino acid sequence set forth in SEQ ID NOs: 25-32 when aligned using the BLASTN program of the National Center for Biotechnology Information and
thereby transferring an amino group from the amino acid to the α -keto acid.

Sub C1
19. (New) An enzyme of claim 17, wherein the amino acid sequence is at least 80% identical.

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20. (New) An enzyme of claim 17, wherein the amino acid sequence is at least 90% identical.

21. (New) An enzyme of claim 17, wherein the amino acid sequence is at least 95% identical.

22. (New) An enzyme of claim 21, wherein the enzyme is microbial.

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- buy CS case*
- C* ~~23.~~ *a method 2* (New) ~~An enzyme~~ of claim ~~18~~, wherein the amino acid sequence is at least 80% identical.
- C* ~~24.~~ *a method 2* (New) ~~An enzyme~~ of claim ~~18~~, wherein the amino acid sequence is at least 90% identical.
- ~~25.~~ *a method 2* (New) ~~An enzyme~~ of claim ~~18~~, wherein the amino acid sequence is at least 95% identical.
- C* ~~26.~~ *a method 9* (New) ~~An enzyme~~ of claim ~~25~~, wherein the isolated enzyme is microbial.
- C* ~~27.~~ *a method 9* (New) ~~An enzyme~~ of claim ~~25~~, wherein the enzyme converts about 400 μ moles of α -keto acid per minute per mg of the enzyme.

- cont.*
- duplicate of 19*
19. (New) An enzyme of claim 17, wherein the amino acid sequence is at least 80% identical.
20. (New) An enzyme of claim 17, wherein the amino acid sequence is at least 90% identical.
21. (New) An enzyme of claim 17, wherein the amino acid sequence is at least 95% identical.
22. (New) An enzyme of claim 21, wherein the enzyme is microbial.
23. (New) An enzyme of claim 18, wherein the amino acid sequence is at least 80% identical.
24. (New) An enzyme of claim 18, wherein the amino acid sequence is at least 90% identical.

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25. (New) An enzyme of claim 18, wherein the amino acid sequence is at least 95% identical.

26. (New) An enzyme of claim 25, wherein the isolated enzyme is microbial.

27. (New) An enzyme of claim 25, wherein the enzyme converts about 400 μ moles of α -keto acid per minute per mg of the enzyme.

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Add C9